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F. A. PROJECT NO.

#### NOTES

ASSUMED LIVE LOAD -----HS20-44 OR ALTERNATE LOADING.

DESIGN FILL-----

FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.

3"Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.

CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER:

1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4" OF ALL VERTICAL WALLS.
2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.

THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.

THIS BARREL STANDARD TO BE USED ONLY ON QUADRUPEL BARREL CULVERTS 8' OR OVER IN VERTICAL CLEARANCE ON 135° SKEW AND TO BE USED WITH STANDARD WING SHEET WITH THE SAME SKEW AND VERTICAL CLEARANCE.

DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON WING SHEET.

TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED TO LIMIT THE POURS TO A MAXIMUM OF 70 FT. LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

STEEL IN THE BOTTOM SLAB MAY BE SPICED AT THE PERMITTED CONSTRUCTION JOINT AT THE CONTRACTOR'S OPTION, EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.

AT THE CONTRACTOR'S OPTION, HE MAY SPICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL AND BOTH FACES OF INTERIOR WALLS ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPICE LENGTH SHALL BE AS PROVIDED IN THE SPICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.

AT THE CONTRACTOR'S OPTION HE MAY SUBMIT, TO THE ENGINEER FOR APPROVAL, DESIGN AND DETAIL DRAWINGS FOR A PRECAST REINFORCED CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE CULVERT SHOWN ON THE PLANS. THE DESIGN SHALL PROVIDE THE SAME SIZE AND NUMBER OF BARRELS AS USED ON THE CAST-IN-PLACE DESIGN. FOR OPTIONAL PRECAST REINFORCED CONCRETE BOX CULVERT, SEE SPECIAL PROVISIONS.

#### LOCATION SKETCH

TOTAL STRUCTURE QUANTITIES	
CLASS A CONCRETE	
BARREL @ _____ CY/FT _____ C.Y.	
WING ETC. _____ C.Y.	
TOTAL _____ C.Y.	
REINFORCING STEEL	
BARREL _____ LBS.	
WINGS ETC. _____ LBS.	
TOTAL _____ LBS.	

PROJECT NO. \_\_\_\_\_

\_\_\_\_\_ COUNTY

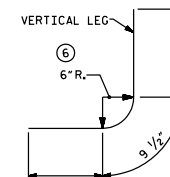
STATION: \_\_\_\_\_

SHEET 1 OF 2

STATE OF NORTH CAROLINA	
DEPARTMENT OF TRANSPORTATION	
RALEIGH	
BARREL STANDARD	
QUADRUPEL _____ FT. X _____ FT.	
CONCRETE BOX CULVERT WITH	
VERT. CLEARANCE OF 8 FT.	
OR MORE 135° SKEW	
1972	

REVISIONS				SHEET NO.
NO.	BY	DATE	NO.	
1			3	TOTAL SHEETS
2			4	

STD. NO. CB554A



#### BAR TYPE

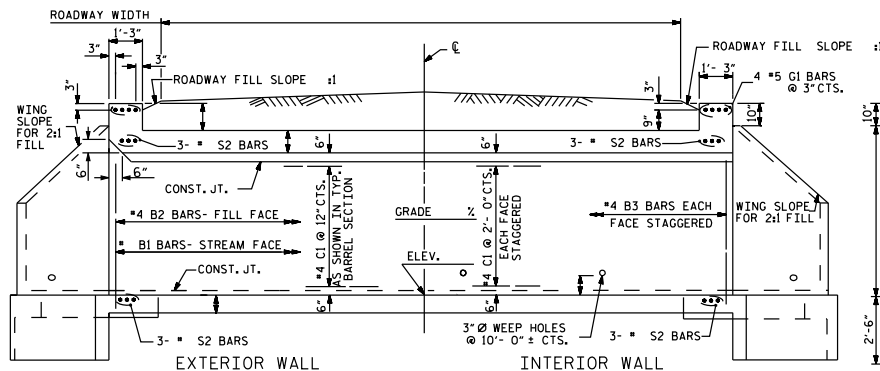
BAR DIMENSIONS ARE OUT TO OUT

#### PROFILE ALONG C CULVERT

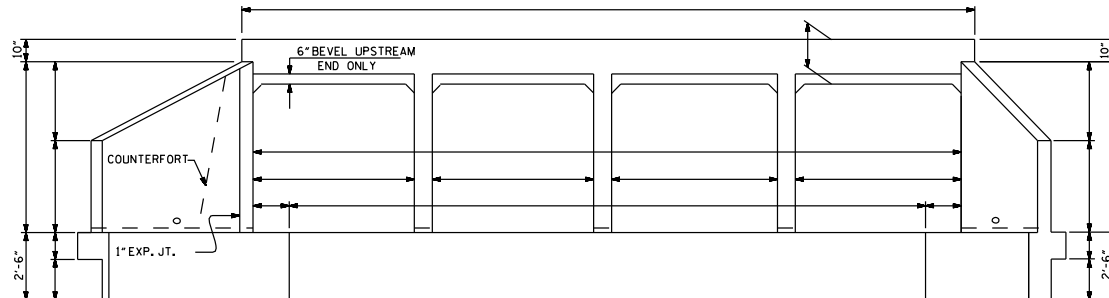
ADDED 1-2-90

ASSEMBLED BY : _____	DATE : _____	SPECIAL
CHECKED BY : _____	DATE : _____	
DRAWN BY : _____ JOHN ROUSE	DATE : DEC.89	STANDARD
CHECKED BY : _____ ED ROSE	DATE : 10/90	

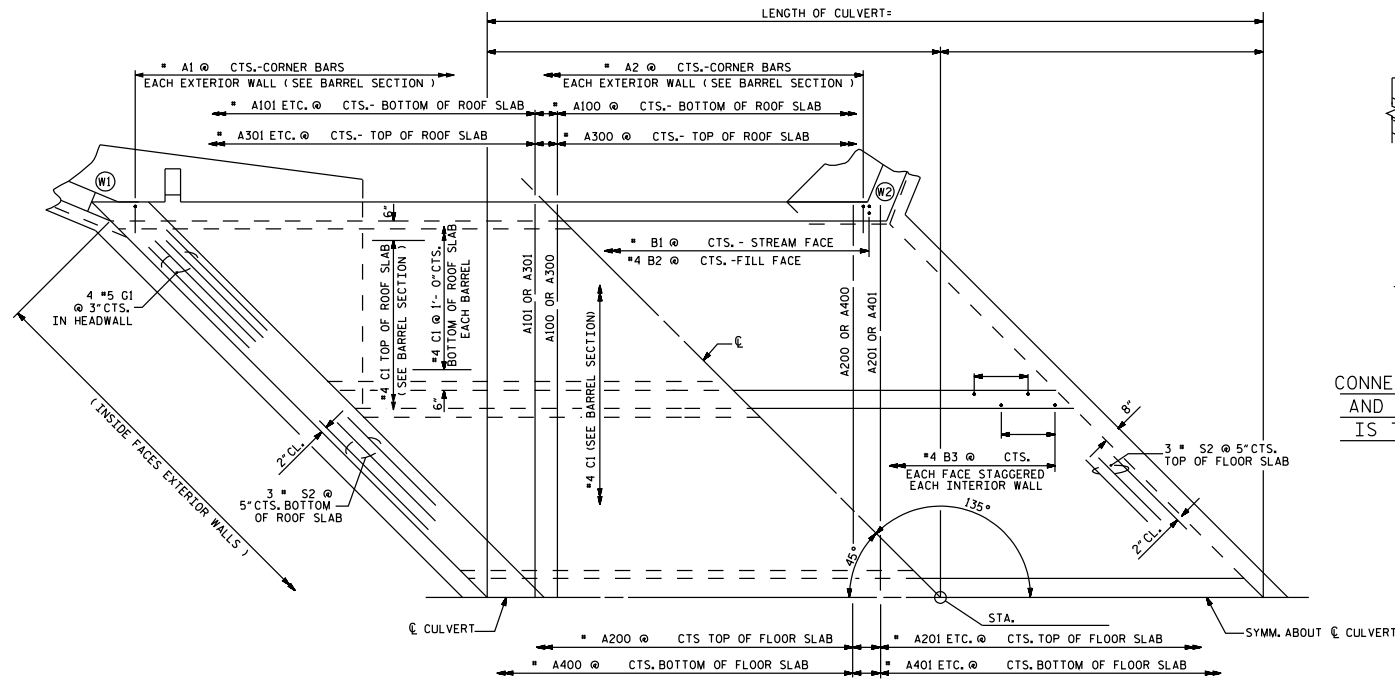
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CULVERT SECTION NORMAL TO ROADWAY

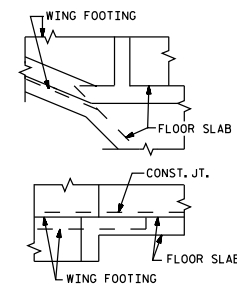


END ELEVATION NORMAL TO SKEW

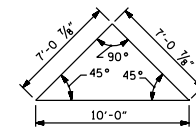


PART PLAN - ROOF SLAB

PART PLAN - FLOOR SLAB



DETAIL  
 CONNECTION OF WING FOOTING  
 AND FLOOR SLAB WHEN SLAB  
 IS THICKER THAN FOOTING



SKEW TRIANGLE

PROJECT NO. \_\_\_\_\_

\_\_\_\_\_ COUNTY

STATION: \_\_\_\_\_

SHEET 2 OF 2

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 BARREL STANDARD  
 QUADRUPLE FT. X FT.  
 CONCRETE BOX CULVERT WITH  
 VERT. CLEARANCE OF 8 FT.  
 OR MORE 135° SKEW

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS
2			4			

STD. NO. CB554

REVISED 11-19-99 BY M.M. CHECKED BY R.W.W.  
 REDRAWN BY J.R. CHECKED BY E.L.R. 10/90

ASSEMBLED BY : _____	DATE : _____	SPECIAL
CHECKED BY : _____	DATE : _____	
DRAWN BY : R.F. HOLMES	DATE : 7/72	STANDARD
CHECKED BY : JOEL A. JOHNSON	DATE : 7-18-72	